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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/564,911	01/17/2006	Johannis Friso Rendert Blacquiere	NL030897US1	5339	
24737 PHILIPS INTE	7590 04/01/201 ELLECTUAL PROPER	EXAMINER			
P.O. BOX 3001			PENDLETON, DIONNE		
BRIARCLIFF	MANOR, NY 10510	ART UNIT	PAPER NUMBER		
			2627		
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			04/01/2011	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.	Applicant(s)						
10/564,911	BLACQUIERE ET AL.						
Examiner	Art Unit						
DIONNE H. PENDLETON	2627						

	DIONNE H. PENDLETON	2627					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time map be available under the provisions of 3 OF 81.13 after SIX (6) MONTHS from the mailing date of this communication. 1 IN period for reply is specified above, the markenum statisticity period with the provision of the provision	TE OF THIS COMMUNICATION B(a). In no event, however, may a reply be tim Il apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this cor D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 22 De 2a) This action is FINAL. 2b) This a 3) Since this application is in condition for allowand closed in accordance with the practice under Example.	action is non-final. ce except for formal matters, pro		merits is				
Disposition of Claims							
4) ⊠ Claim(s) 1-3.5-8 and 10-23 is/are pending in the 4a) Of the above claim(s) 2.3.11-13 and 15-21 is 5) □ Claim(s) □ is/are allowed. 6) ☒ Claim(s) 1.5-8.10.14.22 and 23 is/are rejected. 7) □ Claim(s) □ is/are objected to. 8) □ Claim(s) □ are subject to restriction and/or	s/are withdrawn from considerat	ion.					
Application Papers							
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examinary and the state of the state	pted or b) objected to by the line in abeyance. See on is required if the drawing(s) is object.	37 CFR 1.85(a). ected to. See 37 CF	. ,				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign p a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 3. ☐ Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Applicati ty documents have been receive (PCT Rule 17.2(a)).	on Noed in this National S	Stage				
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Fatent Drawing Neview (PTO-948)	4) Interview Summary Paper No(s)/I//ail D:						

1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
2) Notice of Draftsperson's Fatent Drawing Review (PTO-948)	Paper No(s)/I//ail Date	
Information Disclosure Statement(s) (PTO/SB/08)	 Notice of Informal Patent Application 	
Paper No(s)/Mail Date .	6) Other:	

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DETAILED ACTION

Election/Restrictions

- 1. Claims 1, 5-8, 10, 14, 22 and 23 are drawn to the elected species 8, illustrated in Fig. 6B.
- Claims 2, 3, 11-13 and 15-21 are withdrawn from further consideration pursuant to 37
 CFR 1.142(b), as being drawn to, at least, nonelected Figures 5B, 5C and/or 5D, there being no allowable generic or linking claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1, 5, 8, 10, 14 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sims, III et al (US 7.058.852) in view of Takahashi (2004/0057357).

Regarding claims 1 and 8,

Sims teaches a device for recording information in blocks having logical addresses, the device comprising:

A recording unit ("351" in figure 3) for recording marks in a track on a record carrier representing the information,

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A controller (see processor "312" in figure 3) for controlling the recording by locating each block at a physical address in the track, the controller comprising

addressing means for translating the logical addresses into the physical addresses and vice versa in dependence of defect management information (column 9:44-47 teaches mapping physical addresses to logical addresses, while column 12:4-7 teaches conversion of logical address to physical address),

defect management means for detecting track defects and maintaining the defect management information in defect management areas on the record carrier (see discussion of primary and secondary defect lists in column 3:52-55, and column 4:11-15), the defect management information including assignment information indicative of assignment of physical addresses in first parts of the track to at least one user data area, and assignment of physical addresses in second parts of the track to defect management areas (column 12, lines 31-41), and the defect management information including remapping information indicative for translating a logical address initially mapped to a physical address exhibiting a defect to an alternate physical address in a defect management area (column 4, lines 11-15), and

assignment means for adapting the assignment information depending on a detected defect, detected during recording, and a defect management area having a starting physical address near the detected defect (see discussion of "DMA" in column 13:47-58, which is "near" the detected defect, as broadly claimed).

Sims fails to expressly teach that the new defect management areas is preceded by a user data area or a free area and is followed by a user data area or a free area. A free area being an area to be assigned either as a user area or a new defect management area.

TAKAHASHI teaches in Figures 1 and 2 creating a defect management area (see "DMA" in Fig. 1) which is preceded by a user data area ([0036]).

It would have been obvious, at the time of the invention, to modify Sims, per the teachings of Takahashi, creating supplemental defect management areas (see "new DMA") when an active DMA has weakened.

Regarding claim 5,

Sims teaches that the defect management area includes a range of physical address in a part of the track originally assigned to the at least one user data area, the part of the track being a free space in the user data area (Figure 2 of Sims illustrates that the same area used for recording user data, may be allocated as a defect management area when a defect is detected).

Regarding claim 10 and 14,

Takahashi teaches the device as claimed in claims 1 and 8, wherein the defect management area starts at a location of the detected defect (see Figure 1, as broadly claimed).

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Regarding claim 22,

Takahashi teaches that the new defect management area (Fig. 2 shows DMA0) is

followed by a free area, said free area being an area free to be assigned as a new defect

management area (see "DMA1" through "DMA n" per [0036]).

4. Claims 1, 5-8 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Ohata (U.S. 6,469,978) in view of Tokumitsu (Pub. No. US 2002/0150009) and Takahashi

(2004/0057357).

Regarding claims 1 and 8,

Ohata teaches a device for recording information in blocks having logical addresses, the

device comprising:

a recording unit ("3" in figure 13) for recording marks in a track on a record carrier

representing the information,

a controller (8 in figure 13) for controlling the recording by locating each block at a

physical address in the track, the controller comprising

An addressing unit (6 in figure 13) for translating the logical addresses into the physical

addresses and vice versa in dependence of defect management information (column 10:19-24),

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A defect management unit ("4" in figure 13), for detecting defects and maintaining the defect management information in defect management areas on the record carrier (column 10:29-41).

the defect management information including assignment information indicative of assignment of physical addresses in first parts of the track to at least one user data area (column 7:64-column 8:5, emphasis on line 5 of column 8; also column 10:29-34, emphasis on lines 33-34), and assignment of physical addresses in second parts of the track to defect management areas (column 7:52-63; figure 2; also column 10:35-37), and the defect management information including remapping information indicative for translating a logical address initially mapped to a physical address exhibiting a defect to an alternate physical address in a defect management area (column 8:29-36; also column 10:44-47 which discloses mapping logical address to physical address), and

an assignment unit (combined operations of "6" + "7" in figure 13) for adapting the assignment information in dependence of a detected defect, detected during recording, by creating new defect management area having a starting physical address near the detected defect (According to the Applicant's specification, lines 15-17 of page 10, "creating" is defined as "assigning an additional physical address...". Column 8, lines 29-36 discloses that if a sector in the user area may not be used due to defect, a spare area is used in place of the defective sector. In lite of the Applicant's specification, the "use" of a spare area is interpreted as corresponding to "creating new defect management area" as newly amended.)

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Ohata does not expressly teach that assignment information is adapted depending on a detected defect, detected during recording.

TOKUMITSU teaches, in paragraph [0002], assigning an alternative block i.e., adapting assignment information, for recording therein when a defective block is detected during the recording operation.

It would have been obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of Ohata and Tokumitsu, such that defective area may be detected during the recording operation, for the purpose of enabling the recording of data to the optical disc in question.

Ohata, modified by Tokumitsu, fails to expressly teach that the new defect management areas is preceded by a user data area.

TAKAHASHI teaches in Figures 1 and 2 creating a defect management area (see "DMA" in Fig. 1) which is preceded by a user data area ([0036]).

It would have been obvious, at the time of the invention, to modify Sims, per the teachings of Takahashi, creating supplemental defect management areas (see "new DMA") when an active DMA has weakened.

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Regarding claim 5,

Ohata teaches the device as claimed in claim 1, wherein the new defect management area include a range of physical address in a part of the track originally assigned to the at least one user data area, in particular the part of the track being a free space in the user data area (column

9:23-34).

Regarding claim 6,

Ohata teaches the device as claimed in claim 1, wherein the device comprises a contiguous recording detection unit for detecting a series of blocks having a continuous logical address range to be recorded in a corresponding allocated physical address range (column 10:19-24, 44-47, and column 13:8-20), and the new defect management area is outside the allocated physical address range (see, column 13:40-50).

Regarding claim 7,

Ohata teaches the device as claimed in claim 6, wherein the contiguous recording detection unit is for detecting a continuous recordings indicator in a recording command, or for detecting the series of blocks representing real-time information, or for detecting file system information for detecting that the series of blocks constitute a file (Ohata teaches a device for use with conventional optical discs having data thereon or requiring data to be written thereto, in which case user data areas having data written therein will be indicative of

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continuous recordings as claimed).

Regarding claim 23,

Takahashi teaches that the new defect management area (Fig. 2 shows DMA0) is followed by a free area, said free area being an area free to be assigned as a new defect management area (see "DMA1" through "DMA n" per [0036]).

Response to Arguments

Applicant's arguments with respect to claims rejected in the Official Action mailed
 9/24/2010 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DIONNE H. PENDLETON whose telephone number is (571)272-7497. The examiner can normally be reached on 10:30-7:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dionne H Pendleton/ Examiner, Art Unit 2627

/Wayne Young/ Supervisory Patent Examiner, Art Unit 2627